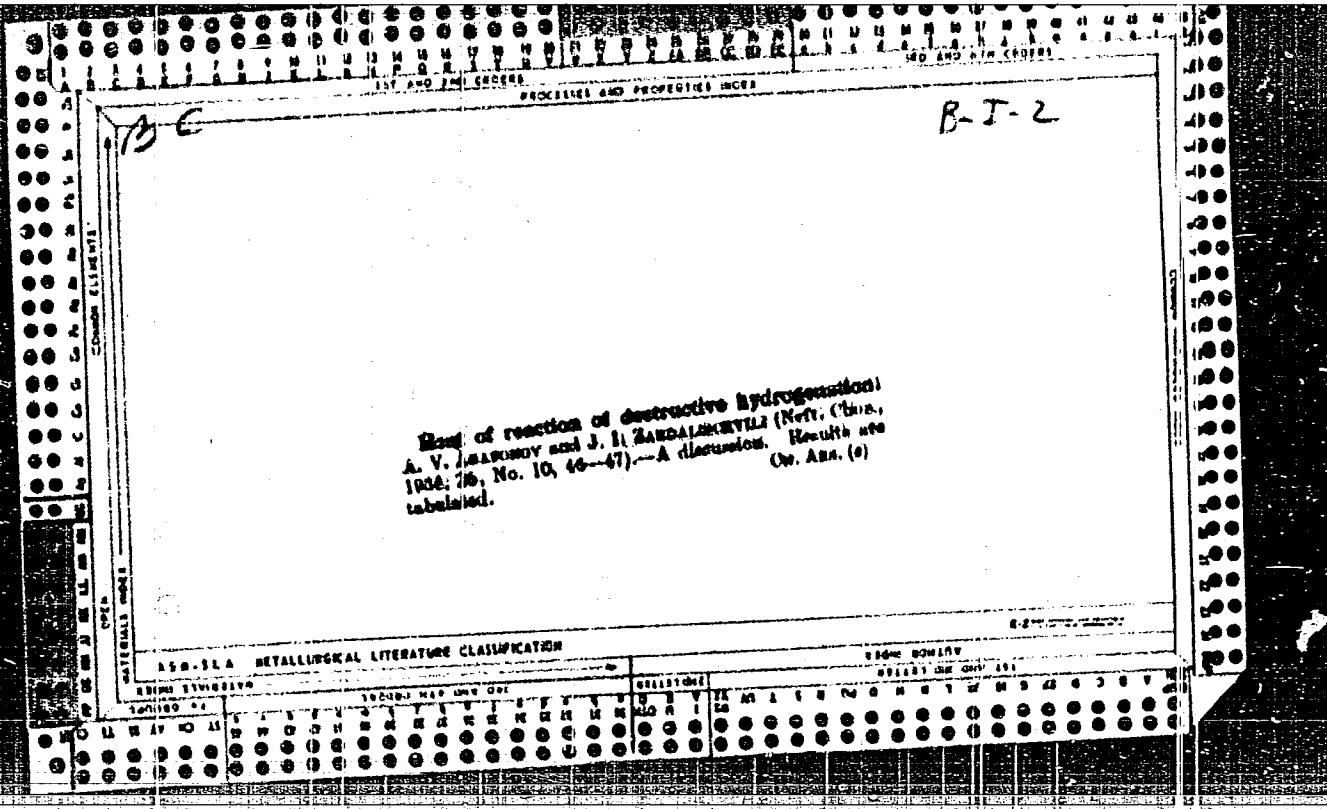


ZARDALISHVILI, G.I.; ABULOV, V.L.

Georgii Nikolaevich Gekhtman; on the occasion of his 85th
birthday. Izv.Vses.geog.ob-va 88 no.4:393 Jl-Ag '56. (MLRA 9:10)

(Gekhtman, Georgii Nikolaevich, 1870-)

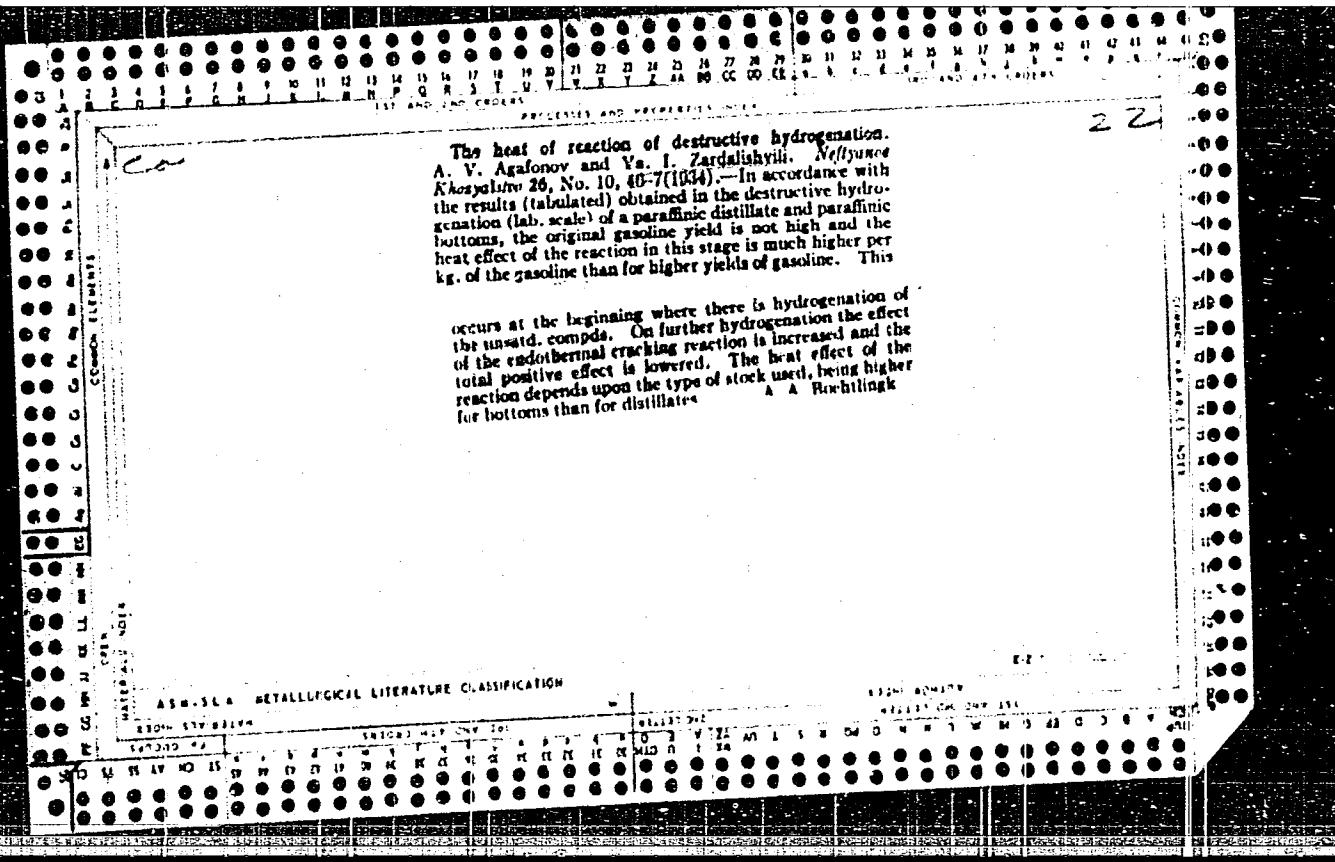


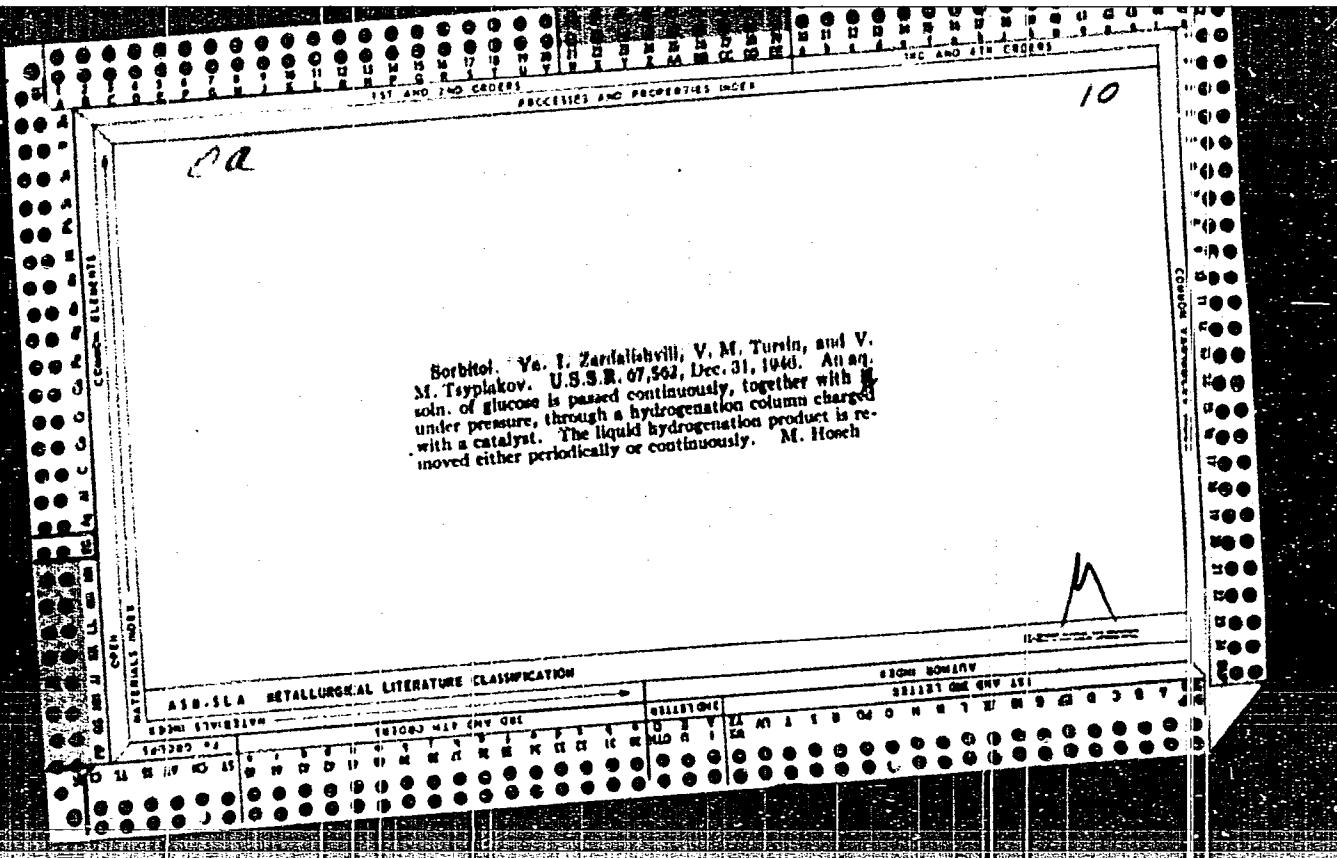
ZARDALISHVILI, O. Yu. Cand Agr Sci -- (diss) "Effect of boron and manganese
~~microelements~~ upon the development and ^{yield} ~~productivity~~ of sugar beets in the
alluvial-meadow soils of Kartli." Tbilisi, 1957. 14 pp (Georgian Order of
Labor Red Banner Agr Inst), 200 copies (KL, 4-58, 84)

ZARDALISHVILI, O.Yu.

Effect of soaking seeds in boron and manganese solutions on the growth and development of sugar beets. Soob. AN Gruz.SSR 18 no.3:307-310 Mr '57. (MERA 10:7)

1. Akademiya nauk Gruzinskoy SSR, Institut pochvovedeniya, agrokhimii i melioratsii, Tbilisi. Predstavлено членом-корреспондентом Академии Sh.F. Chanishvili.
(Agricultural chemistry) (Sugar beets)





ZARDAY, I. 1949

"Social Aspects of Heart Disease."

Nepingeszs., Budapest, 1949, 30/185-215(193-196)
Abst: Exc. Med. IV, Vol. 11, No. 9, p. 978

ZARDAY I
MESTER, Endre, dr.; ZARDAY, Imre, dr.

On ligation of inferior vena cava in decompensated heart disease.
Orv. hetil. 95 no.41:1129-1131 10 Oct 54.

1. A Bajcsy-Zsilinszky Korhaz (igazgato: Andics Gabriella)

kozleménye.

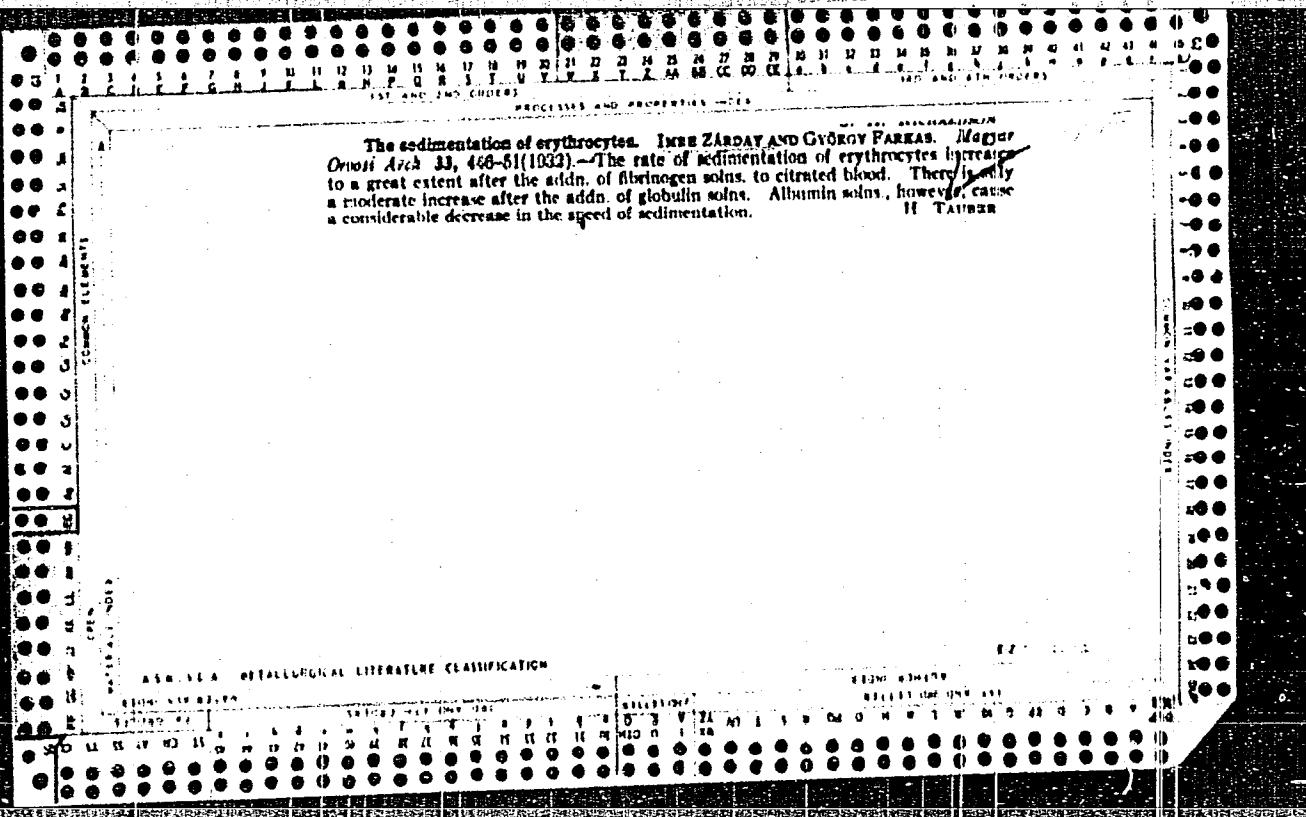
(CONGESTIVE HEART FAILURE, surg.

inferior vena cava ligation)

(VENAE CAVAE, surg.

ligation of inferior in congestive heart failure)

Ca
The antagonism between thyroxine and narcotics with regard to their structure. Lunc Zuiday and Paul Weilner. Chem. Bericht 78, 1862 4(1944). -Kapte. with human patients and animals showed that an antagonism exists between thyroxine and narcotics of the barbiturate acid series. S. S. de Fincky



L 2052B-6 IJP(c) MI/GG

ACC NR:	AP6002071	SOURCE CODE:	PO/0045/65/028/006/0823/08
AUTHOR:	Zardecki, A.	24 B	
ORG:	Chair of General Physics "B," Warsaw Institute of Technology, Warsaw, Poland		
TITLE:	Reflection and refraction properties of partially coherent light		
SOURCE:	Acta physica polonica, v. 28, no. 6, 1965, 823-831		
TOPIC TAGS:	coherent light, electromagnetic field, electromagnetic property, correlation function, electromagnetic wave refraction, tensor, Fresnel lens, vector analysis		
ABSTRACT:	Reflection and refraction properties of coherent light were investigated. The results are based on the vector formulation of the correlation theory of stationary electromagnetic fields. It was found that the correlation tensors associated with reflected and transmitted waves satisfy formulas corresponding to those of Fresnel. Using the concept of the electromagnetic degree of coherence introduced by Karczewski in 1963, it is shown that completely incoherent light may become partially coherent on being reflected or refracted. The knowledge of correlation on the boundary surface enables one to determine its value on any other surface illuminated from the boundary. The author		
Card 1/2			

L 20578-66

ACC NR: AP6002071

thanks Dr. B. Karczewski for his help and valuable suggestions. Orig.
art. has: 32 formulas. [Based on author's abstract] [NT]

SUB CODE: 20/ SUBM DATE: 30Apr65/ OTH REF: 004

Card 2/2 BK

ZARDECKI, Tadeusz

Synthesis development in the Synthetic Aromatic Plant in
Warsaw. Przem chem 43 no. 2: 112-113 F '64.

ZARDIZE, G.M.; KAZAKHASHVILI, T.G.; KIKNADZE, I.I.; MANVELIDZE, R.M.

Structural and petrological features of ancient crystalline rocks
in the Northern Caucasus. Sov.geol. 5 no.2:29-36 F '62.(MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova i
Gruzinskiy politekhnicheskiy institut imeni V.I.Lenina.
(Caucasus, Northern--Rocks, Crystalline and metamorphic)

PASCALIDE, Gh., ing.; POPOVICI, Ana, ing.; DUMITRESCU, Doina, chemist; ZAREA,
Silvia, ing.; GHEORGHE, Elena, chemist

Research and results in the field of synthesis and utilization
of flotation reagents. Rev min 15 no.11:592-595 N '64.

ZAREA, St., ing.

Helicoidal movement of water in a prismatic trapezoid
channel. Hidrotehnica 6 no. 7:228-232 Jl '61.

ZAREA, St.

"Study and calculation of hydraulic systems" by M. Guillot.
Reviewed by St. Zarea. Studii cerc nec apl 15 no.1:275-277
'64.

ZAREA, St., ing.

"Losses of local fluid height in the movement of viscose liquids" by D.A. Altsul. Reviewed by St. Zarea. Midrotah apele meteor 9 no.1:45-46 Ja '64.

ZAREA, St., ing.

"Motion of nonhomogeneous liquids." Reviewed by St. Zarea.
Hidroteh apele meteor 9 no.2:99 F '64.

ZAREA, Et.

Work of the Conference on the Movement of Alluviums and
Hydrotransportation, October 21-24, 1963, Moscow. Studii
cercere mac apl 15 no.2:519-521 '64.

ZAREA, St., ing.

"Artificial action upon the clouds and fogs. Microphysical bases" by V.I. Nikandrov. Reviewed by St. Zarea.
Meteorologija hidrol gosp 6 no.3:258-259 '61.

ZAREA, St.

"Fluid upsetting hydraulic transmissions with adjustable pumps"
by L.U.Mal'ts. Reviewed by St. Zarea. Studil cerc mac apl 15
no.2:532 '64.

ZAREA, S.

TECHNOLOGY

Periodicals: ENERGETICA. Vol. 6, no. 10, Oct. 1958

ZAREA, S. Building low-power hydroelectric power stations for rural electrification in Rumania. p. 456.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 3,
March 1959, Unclass.

ZAREA, S.

A comparative study of trapezoid and parabolic canals from the hydraulic point of view. p. 90.

HIDROTEHNICA. (Asociatia Stiinifica a Inginerilor si Tehnicienilor din Romania) Bucuresti, Rumania, Vol. 4, no. 3, Mar. 1959.

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Uncl.

ZARPA, S.

On the transportation of suspended alluvial deposits through pipes with a rectangular section. p.222.

HIDROTEHNICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania)
Bucuresti, Romania
Vol. 4, no. 7, July 1959.

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November 1959
Uncl.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820004-8

POPOVICI, Ana, ing.; ZARCA, Silvia, ing.

Flocculations for the mining industry. Rev min 15 no.10:481-486 O 164.

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CIA-RDP86-00513R001963820004-8"

ZAREA, St., ing., candidat in stiinte tehnice

A conference on fluid mechanics at Brasov. Hidrotehnica
7 no.3:94-95 Mr '62.

ZAREA, St., ing.

Communications on hydraulics and hydraulic machines presented at the Scientific Session of the Polytechnic Institute, Bucharest. Hidrotehnica 7 no.8:279 Ag '62.

ZAREA, St., ing.

"Principles of fluid mechanics" by S. Eskinazi. Reviewed by
St. Zarea. Hidrotehnica 8 no.11:427 N '63.

ZAREA, St., ing.

"Turbulence. Classical works on the statistical theory"
by S.M. Friedlander, E. Topper. Reviewed by St. Zarea.
Hidrotehnica 8 no.11:425 N '63.

"The mechanics of fluids" by G.H. Cole. Reviewed by
St. Zarea. 425-426.

ZAREA, St.

"Mathematical problems of the dynamics of incompressible viscous fluids" by O.A.Ladyzhenskaya. Reviewed by St. Zarea. Studii matematicheskie 14 no.3:734-735 '63.

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"Hydrology and hydraulics in the construction of roads and
bridges" by V.V. Lebedev. Reviewed by St. Zarea. Meteorologija
hidrol gosp 6 no.2:171 '61.

"APPROVED FOR RELEASE: 09/19/2001

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ZAREA, St., ing.

"Mathematical problems of the dynamics of incompressible and viscous fluids" by O.A.Ladijenskaia. Reviewed by St.Zarea.
Meteorologija hidrol gosp 7 no.3:232 '62.

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"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820004-8

ZAREA, St., ing.

"Introduction to continuous mean mechanics" by L.I. Sedov. Reviewed
by St. Zarea. Hidrotehnica 8 no.2:71-72 F '63.

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CIA-RDP86-00513R001963820004-8"

24,4300

S/124/62/000/003/013/052
D237/D301

AUTHOR: Zarea, St.

TITLE: On determining local pressure losses in the branches
of pressurized piping

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1962, 42,
abstract 3B230 (Hidrotehnica, 1961, 6, no. 1, 8 - 11)

TEXT: Application of the equations of impulse to an aptly chosen
control surface allowed the author to obtain a simple expression
for determining losses in the branches, while accounting for the
screw motion of the flow. Comparison of calculated and experimental
results show a close agreement. 8 references. [Abstractor's note:
Complete translation].

JB

Card 1/1

ZAREA, St.

"Resistance of hydraulic reaction turbines to wear" by
M. M. Orakhelashvili. Reviewed by St. Zarea. Studii
cerc nec apl 14 no. 6: 1510-1511 '63.

ZAREBA, A.

On β conductivity in germanium (conductivity of germanium induced by electron bombardment). Acta physica Pol 21 no.4:371-387 Ap '62.

1. Institute of Physics, Polish Academy of Sciences, Warsaw.

ZAREBA, A.

Distr: 4E2d(b) 2 cys
✓ Electron-bombardment induced conductivity in Ge.
A. Zareba (Inst. Fizyki PAN, Warsaw). *Bull. Acad. polon. sci., ser. sci., math., astron. et phys.* 7, 255-60 (1959)
(in English).—The cond. of an n-type Ge monocrystal sample (etched in H₂O₂), induced by an electron beam of 22.7 e.v., and 3.4 × 10⁻⁴ amp., was measured by the use of an EM3 Russian electron microscope. The consts. of the equation relating the β-current voltage U' to the voltage U on the sample: $U' = \alpha_1 U + \alpha(\gamma U)^2(-1 + \exp(-1/\gamma U))$ were found to fit the exptl. results with the values $\alpha = 1.23 \times 10^{-3}$, $\gamma = 0.40$, within the range $U = 0 - 2.5$ v., $U' = 0 - 4$ inv. Hence, the energy of generation per electron-hole pair and the effective lifetime of the addnl. carriers were found to be $e = 2.8 \pm 0.3$ e.v. and $\tau = 1.8 \pm 0.2$ μsec., resp. J. Stecki

"APPROVED FOR RELEASE: 09/19/2001

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APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820004-8"

POLAND/Electricity - Semiconductors.

G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9074
Author : Zareba, A.
Inst : Institute of Physics, Polish Academy of Science
Title : Electron Bombardment Induced Conductivity in Germanium
Orig Pub : Bull. Acad. polon. sci. Ser. sci. Math., Astron. et phys.
1959, 7, No 4, 255-260

Abstract : The average effective energy Σ , consumed in the production of a single electron-hole pair is determined. To determine this quantity it is necessary to know the effective lifetime τ (connected both with the volume and with the surface recombination) of the generated current carriers. Since electron bombardment changes the state of the surface and can influence surface recombination, both Σ and τ are determined by changing the dependence

Card 1/2

ZAREBA, Jerzy

On the syndrome of so-called "steatorrhea" — in the light of
our observations. Pol. tyg. lek. 18 no.44:1642-1645 23 01'63.

l. Z Kliniki Chorob Dzieci Sz. AM; kierownik: prof.dr.med.
Artur Chwalibogowski.

ZAREHA, Jerzy

On the syndrome of so-called "steatorrhea" in the light of
our observations. II. Secondary visceral syndromes (pseu-
doeliac disease). Pol. tyg.lek. 18 no.47:1759-1561
18 N'63.

1. Z Kliniki Chorob Dzieci Sz. AM; kierownik: prof.dr.med.
Artur Chwajlibogowski.

CHWALIBOGOWSKI, Artur; KRAUZE, Mieczyslaw; ZAREBA, Jerzy

Neoplasms in children in the light of 10-year observations
in the Paediatric Clinic in Zabrze. Pediat. pol. 38 no.6:
529-536 Je '63.

l. Z Kliniki Chorob Dzieci Slaskiej AM Kierownik: prof. dr
med. A. Chwalibogowski.
(NEOPLASM STATISTICS)

GRUSZCZYNSKI, Jan; KRAUZE, Mieczyslaw; ZAREBA, Jerzy

Congenital ichthyosis in the light of our observations. Pol.
tyg. lek. 19 no.33:1284-1285 17 S '64.

1. Z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w
Zabru; kerowniks prof. dr. med. Artur Chwalibogowski [deceased]).

ZAREBA, Jerzy; KRAUZE, Mieczyslaw; TENNER, Julian

Hypoproteinemia caused by an "exudative enteropathy". Pol. tyg.
lek. 19 no.41:1580-1581 12 0 '64

1. Z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w
Zabru (Kierownik: prof. dr. med. Artur Chwalibogowski
[deceased]) i z Instytutu Onkologii w Gliwicach (Dyrektor:
dr. med. Jeremi Swiecki).

SWIERCZYSKA, Zdzislawa; WOZNICZKO-ORLOWSKA, Genowefa; ZAREBA, Jerzy;
GRUSZCZYNSKI, Jan

Role of antibodies against bovine proteins in children. Pol.
tyg. lek. 19 no.49:1876-1877 7 D '64

1. Z Zakladu Mikrobiologii Slaskiej Akademii Medycznej w
Zabru-Rokitnicy (kierownik: prof. dr. mgr. Jerzy Szaflarski)
i z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w Zabru
(kierownik: prof. dr. med. Artur Chwalibogowski [deceased]).

ZAREBA, Jerzy; KOSSOWSKI, Andrzej

Accidental poisoning in children in the light of clinical
material in Zabrze. Pediat. Pol. 39 no.6:737-741 Je '64.

1. Z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w
Zabrzu (Kierownik: prof. dr med. A. Chwalibogowski [deceased]).

ZAREBA, Jerzy; GRUSZCZYNSKI, Jan; SWIERCZYNSSKA, Zdzislawa;
WOZNICZKO-ORIOWSKA, Genowefa

Effect of eliminating diet on the level of antibodies to
bovine proteins. Pol. tyg. lek. 20 no.15:507-508 12 Ap '65.

1. Z Kliniki Chorob Dzieci Slaskiej AM w Zabrzu (Kierownik:
prof. dr. med. Artur Chwalibogowski [deceased]) i z Zakladu
Mikrobiologii Slaskiej AM w Zabrzu--Rokitnicy (Kierownik:
prof. dr. mgr. Jerzy Szaflarski).

ZAREBA, Jerzy; MUSIAŁOWICZ, Jacek

Studies on the pathomechanism of steatorrhea syndrome. Pol. tyg.
lek. 20 no.28:1029-1031 12 Jl '65.

1. Z Kliniki Chorob Dzieci Śląskiej AM w Zabrzu (p.o. Kierownika:
doc. dr. med. Bozena Hager-Malecka).

ZAREEA, Jerzy; KRYSOWSKA, Anna

Intestinal diseases caused by Klebsiella in infants. Ped. Pol.
40 no.4:375-377 Ap'65.

1. Z I Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w
Zabru (p.o. Kierownika: doc. dr. med. B. Hager-Malecka).

ZAREMA, Jerzy

Cardiospasm in a 12-year-old girl. Pediat. Pol. 40 no.7:739-740
Jl '65.

1. Z Kliniki Chorob Dzieci Slaskiej AM w Zabrzu (p.o. Kierownik:
doc. dr. med. B. Hager-Malecka).

ZAREBA, Jerzy; KOWALSKI, Wacław

Lymphangioma of the ileum in hypertrophic pyloric stenosis
in an infant. Pediat. Pol. 40 no.10;1127-1128 0 '65.

1. Z Kliniki Chorób Dzieci AM w Zabrzu (Kierownik: prof. dr.
A. Chwalibogowski [deceased]) i z Zakładu Anatomii Patologicznej
AM w Zabrzu (Kierownik: prof. dr. W. Niepolomski).

TABENSKI, Zbigniew; ZAREBA, Jerzy; HENEK, Edward

Pancreatic cyst in a 9-month-old infant. Pediat. Pol. 40 no.10:
1129-1130 0 '65.

1. Z Kliniki Chorob Dzieci AM w Zabrzu (p.o. Kierownik: doc.
dr. med. B. Hager-Malecka) i z Oddzialu Chirurgii Dzieciecej
w Gliwicach (Ordynator: doc. dr. med. Z. Tabenski).

CHWALIBOGOWSKI, Artur [deceased]; SOBANSKI, Tadeusz; ZAREBA, Jerzy

Detection of mucoviscidosis among children with chronic respiratory and/or digestive diseases. Pediat. Pol. 39 no.9
1021-1024 S '64

Results of mass tests for minimal or residual cases of mucoviscidosis. Ibid.:1025-1029

1. Z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w Katowicach (Kierownik: prof. dr. med A. Chwalibogowski [deceased]).

ZAREBA, Jerzy

Secondary pancreatopathies according to our material. Pediat.
Pol. 39 no.9:1031-1035 S '64

1. Z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w
Zabrzu (Kierownik: prof. dr. med. M. Gajlibogowski [de-
ceased]).

SROCHYNSKA, Maria; ZAREDA, Jerzy

Anemia combined with acanthocytosis in the course of celiac disease. Pediat. Pol. 39 no.9:1097-1101 S '64

1. Z Kliniki Chorob Dzieci Slaskiej Akademii Medycznej w
Zabru (Kierownik: prof. dr. med. A. Chwalibogowski [de-
ceased]).

KACZYNsKA, Wanda, ZAREBA, Jerzy

A case of mandibulofacial dysostosis in a 3-month-old infant. Pediat. pol. 39 no.1:61-64 Ja'64

1. Z Kliniki Chorob Dzieci AM w Zabrze; Kierownik: prof. dr. med. A. Chwalibogowski.

KRAUZE, Mieczyslaw; ZAREBA, Jerzy

A case of Apert's acrocephalosyndactylia in an infant. Pediat. Pol.
37 no. 3:303-306 '62.

1. Z Kliniki Chorob Dzieci Slaskiej AM w Zabrze Kierownik: prof. dr
med. A. Chwalibowski.

(ACROCEPHALOSYNDACTYLIA case reports)

ZAREBA, Jerzy; GRUSZCZYNSKI, Jan

Fetal ichthyosis. Case report. Polski tygod. lek., 15 no. 34:
1315-1317 22 Ag '60.

1. Z Kliniki Chorob Dzieci Sz. A.M. w Zabru; kierownik: prof.
dr med. A. Chwalibogowski.

(ICHTHYOSIS in infancy & childhood)
(INFANT, NEWBORN dis.)

ADAMCZAK, Teobald; KASPRZYCKA, Irena; MACIEJCZYK, Stanislaw; SADOWSKI, Jan;
ZAREBA, Janusz.

Effects of experimental application of silicic acid in animals.
Polski tygod. lek. 15 no. 18:659-664 2 My '60.

l. Z II Kliniki Chirurgicznej A.M. w Warszawie; kierownik: prof.
dr.med. Jan Mossakowski i z Zakladu Anatomii Patologicznej Szpitala
Miejskiego nr 4 w Warszawie; kierownik: prof. dr. med. Janina
Dabrowska.
(SILECA toxicol.)

ZARERA, J.

"Efficiency of the equipment for preparing coal dust. (To be contd.)."

p. 167 (Gospodarka Cieplna, Energetyka Przemyslowa) Vol. 5, no. 4, July/
Aug. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

WYRZYKOWSKA-PTASIEWICZ, Irena; ZAREBA, Jerzy

Neomycin therapy of infantile diarrheas caused by pathogenic strains
of Escherichia coli. Pediat. polska 34 no.6:827-831 June 59.

1. Z Kliniki Chorob Dzieci Slaskiej A. M. w Zabrzu Kierownik: prof.
dr med. A. Chwalibogowski.

(NEOMYCIN, ther.) (DIARRHEA, in inf. & child)
(ESCHERICHIA COLI INFECTIONS, in inf. & child)

JANKOWSKA, Helena; WYRKOWSKA-PTASIEWICZ, Irena; ZAREBA, Jerzy

On the problem of vitamin A deficiency in epidemic hepatitis in infants. Polski tygod. lek. 14 no.46:2017-2021 16 Nov 59.

1. z Kliniki Chorob Dzieci St. A. M. w Zabrzu; kierownik: prof. dr med. A. Chwalibogowski i z Kliniki Okulistycznej Sl. A. M. w Zabrzu; kierownik: doc. dr med. M. Madroszkiewicz).

(VITAMIN A DEFICIENCY, etiol.) (HEPATITIS INFECTIOUS, compl.)

ZAREBA, R.; ALEXANDRONICE, E.

Typological systematization of the forest of Sekocin. p.109
ROCZNIKI NAUK LESNYCH (Instytut Badawczy Lasnictwa i Instytut Technologii Drewna)
Warszawa Vol. 8, 1955

So. East European Acquisitions List Vol. 5, No 9 September 1956

COUNTRY : Poland X
SUBJCT: Forestry. Forest Cultures.

ADS. JOUR.: Ref Zbir -Biologiya; No. 5 , 1959, No. 20160

AUTHOR : Zaraba, Ryszard
INST. : Vitovskiy Leskhoz
TITLE : Experimental Plots in Wirty Should Be Investigated.

ORIG. PUB.: Las polski, 1958, 32, No.4, 16-17

ABSTRACT : Experiments were set up under the direction of Prof. Shvappakh at Vitovskiy Leskhoz in 1890-1897 to study valuable exotics which were maintained up to that time, despite the effect of unfavorable climatic conditions (low temperatures). It is suggested that the growth of the surviving and already acclimatized trees be studied and their seeds used for reproduction. --S.M. Stoyko.

CARD : 1/1

POLAND / Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement. I-28

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 10200

Abstract : unit gave a total clarification of 6.5%; when a similar amount of charcoal is passed through the concentrated solution, a clarification of 25% is obtained. A syrup of density about 65° Brix containing charcoal is easily filtered in a filter press (with an average throughput of 2.3 liters/m²/min). The addition of the charcoal to the juice before evaporation reduces the formation of scum and results in the formation of a porous sediment which can easily be removed by mechanical means. The addition of charcoal to the juice ahead of the second saturation step also affects the formation of deposits on the walls of the saturation unit.

Card : 2/2

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by [unclear] ACTS, THIS DAY,

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ZAREBA-Z

✓ Factory tests (full-scale runs) on decolorizing of beet-sugar juices with activated carbon. Josef Merkenthal and Eugenio Zareba, "Biel, Int. Przemysla Cukrowniczo-Be-
No. 3/4, 61-61 Gza, References 18, No. 4(1966).—Four full-scale decolorizing runs were carried out by pumping to different refining stages a suspension of activated C (I).
The suspension of 12° Brix was prepared by mixing Norit (manufact. by Polish factory "Carbofil-3," Racibórz) with a juice of approx. 17° Brix. Addn. of I in an amt. 1.5% and 1%, resp., of total sugar to the juice before 2nd evap. resulted in a decolorizing effect of 17% and 12%, resp.
Addn. of I to the 4th stage of evap. in an amt. of 1% resulted in a decolorization of only 6.5%. However, when 1% of I passed the whole evap. system the decolorization was 25%. Syrup approx. 65° Brix with I showed a fairly high filtration rate, 2.3 l./sq. m./min. With better I the results might be better.

ZAREBA, ZBIGNIEW

POLAND/Chemical Technology - Chemical Products and Their
Application, Part 3. - Hydrocarbons and Their
Treatment.

H-25

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22949
Author : Stanislaw Godwod, Zbigniew Zareba, Janusz Haszczynski
Inst : ..
Title : From Studies of Methods of MILK-of-Lime Purification.
Orig Pub : Gaz. cukrown., 1956, 58, No 12, 310-312

Abstract : The methods applied to the purification of milk of lime (ML) are discussed. The results of milk of lime purification at two plants using vibrators (V) and two other plants using decantators (D) are compared. It is found that the V-s yield better results and occupy less space than the D; a disadvantage of the V-s is a rapid wear of screens, the serviceability of which is about 2 weeks in the average. The purification result depends on the closeness of sieves. It is suggested to treat ML in V-s

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820004-8
POLAND/Chemical Technology - Chemical Products and Their
Application, Part 3. - Hydrocarbons and Their
Treatment.

H-25

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22949

after having separated the unslackened lime in a Mick's apparatus, and, after having it strained, the lead ML into a tank with an agitator, from which it should be delivered with a pump to defecation.

Card 2/2

ZAREBA, ZBIGNIEW

POLAND/Chemical Technology, Chemical Products and Their
Application, Part 3. - Carbohydrates and Their
Treatment.

H-26

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34093.

Author : Tadeusz Pietrzykowski, Stanisław Godwod, Zbigniew
Zareba.

Inst : not given

Title : Return of Diffusion Water to Diffusion Battery for
Repeated Utilization.

Orig Pub: Gaz. cukrown., 1957, 59, No 6, 157-162.

Abstract: The work of a sugar factory with repeated utilization of
diffusion water (DW), as well as of water from presses
(PW), was studied in 1955. The work technology is de-
scribed, the complete water economy balance is given,

Card : 1/2

ZAREBA, Z.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement.

E-26

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15916.

Author : Zera Wl., Zareba Z. Haszczynski J.

Inst :

Title : Investigation of the Continuous Operation of an Olier Diffuser in Poland.

Orig Pub: Listy cukrovarn., 1957, 73, No 8, 168-176.

Abstract: The diffusion apparatus of Olier (DAO) with a daily output capacity of 12000-15000 centners, installed in 1957, was tested for 34 days with underloading and interruptions of operation. A description, drawings and photographs of the unit are included, as well as the results of tests over three periods (November -December 1956). A Robert diffusion battery (RDB) was also in operation at the same time.

Card : 1/2

ZAREBA, Zbigniew

Influence of returning water from the diffusion and from the pulp press in the operating process in the sugar factory. Tadeusz Pietrzykowski, Stanislaw Godow, and Zbigniew Zareba. *Prace Głównego Instytutu Przemysłu Rolnego i Sztucznych 4*, No. 4, 1-14 (1954) (French summary).—If recycling is applied, the time-cycle is extended and the discharge of juice from diffusers becomes more difficult. Purity and d. of the juice from diffusers remain practically unchanged. However, the amt. of colloidal substances extd. by the recycled wash water increases. The sugar color increases and the ash content drops slightly, but the quality of molasses remains unaffected. Advantages of recycling are: decrease of sugar losses by about 0.1% and saving of the water requirements up to 160-170%. Studies of defiltration of the waters by means of decantation indicate that decantors work satisfactorily.

Adrian J. Pilat

(2)

ZAREBSKI, H.; ZMUDZINSKA, S.

An acidity indicator for cooling water. p. 133.

CHEMIK. (Ministerstwo Przemyslu Chemicznego i Stowarzyszenie Naukowe-Techniczne
Inżynierów i Techników Przemysłu Chemicznego) Warszawa, Poland Vol. 12, no. 3,
Mar. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.

COUNTRY	: POLAND
CATEGORY	: Chemical Technology. Chemical Products and Their Applications. Water Treatment. Sewage.
ABS. JOUR.	: RZKhim., No. 28 1959, No. 82649
AUTHOR	: Zarebski, H.; Zmudzinska, S.
INST.	: "
TITLE	: pH Alarm for Recycle Water
ORIG. PUB.	: Chemik, 1959, 12, No 9, 133-134
ABSTRACT	: Described is a somewhat modified scheme against that proposed by the Ural'skiy Scientific Research Chemical Institute. Presented are results of laboratory tests.

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H - 20

P/034/60/000/006/003/003
A222/A026

AUTHOR: Zarębski, Henryk, Master of Engineering

TITLE: Methods of Determining Optimum Level and Scope of Automation in Technological Processes

PERIODICAL: Pomiary-Automatyka-Kontrola, 1960, No. 6, pp. 215 - 218

TEXT: The Strejc (Ref. 1, 2) and Lossiyevskiy (Ref. 3) methods of establishing the economic aspects of automation level and scope in technological processes are described. Information on the first method is excerpted from an article by V. Strejc in the Czech periodical "Automatisace", 1960, No. 4, p. 125. A Strejc balance diagram of the economic aspects of automation level and scope is presented in Figure 1. The efficiency indicator $\frac{M}{m}$ specifies the number of tons of a product per employee. The unit production cost in Kčs/t is given on the ordinate. The ordinates I, II and III represent three automation alternatives. In a mathematical analysis of automation economy the value of non-automated basic production is described by the equations. $V_1 = m_1 M_1 + S_1 + E_1 + A_1 + R_1 + D_1 + Z_1 = p_1 c$ (1) $N_1 + Z_1 = p_1 c$ (2). The value of automated basic production is represented by the equations: $V_2 = m_2 M_2 + S_2 + E_2 + A_2 + R_2 + D_2 + \frac{P}{n} + Z_2 + U = p_2 c$ (3), $N_2 = Z_2 + U = p_2 c$. (4), where 1 - indicator specifying non-automated equipment; 2 - indicator

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Methods of Determining Optimum Level and Scope of Automation in Technological Processes

specifying automated equipment; m - number of production employees; M - average annual costs per worker (wages, insurance etc); S - annual cost of raw materials; D - annual maintenance costs; E - annual costs of power and fuel; A - annual amortization deductions for test and regulation equipment; n - service life (in years) of test and regulation equipment; P - capital cost for automation and equipment in Kčs; p - number of units manufactured annually, or the extent of basic production; c - unit price of product in Kčs; Z - annual net profit or accumulation less general overhaul costs in Kčs; R - management costs charged to product, specified in Kčs per year; U - annual savings due to automation in Kčs; N - prime costs in Kčs per year; V - value of income for an annual basic production in Kčs. The method of Lossiyev uses a breakdown of the mechanization and automation extent into 18 stages; an entirely manual performance of all operations constitutes stage 1, while automatic regulation with an automatic correction (optimum regulation) constitutes the top stage 18. The concepts of Lossiyev are shown in Figures 2, 3 and 4. Figure 3 shows a diagram of prime costs (ordinate); the figures indicate technological operations, a, b and c are same as in Figure 2. Figure 4 shows a

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prime-cost curve, with figures indicating the level of mechanization and automation. The conclusion drawn from the description of the two methods is that a thorough technical and economical analysis of technological processes must precede automation projects; the level of automation must be so chosen as to reduce prime costs to a minimum and keep the returns period below the permissible limit. There are 5 figures and 3 references: 2 Czechoslovak and 1 Soviet.

ASSOCIATION: Instytut Chemii Nieorganicznej, Gliwice (Institute of Inorganic Chemistry, Gliwice)

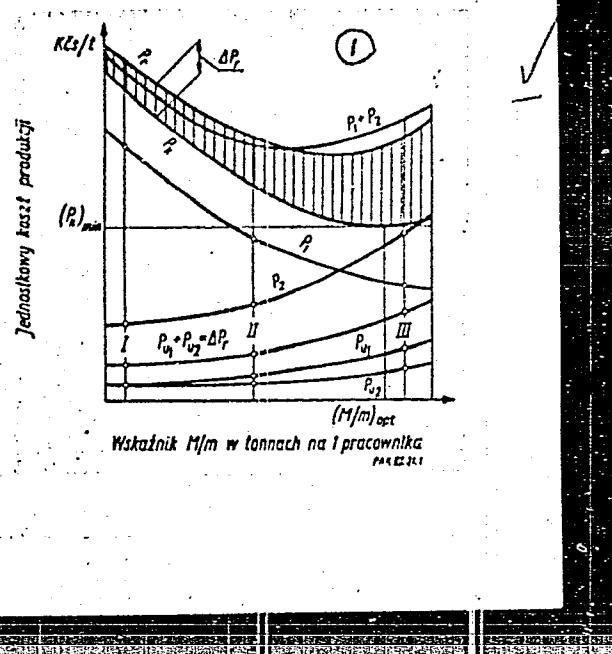
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Methods of Determining Optimum Level and Scope of Automation in Technological Processes

Figure 1: Balance diagram of economic aspects of automation level and scope
 P_1 -direct production costs of 1 ton of a basic product; P_2 -indirect production costs of 1 ton of a basic product; P_{u1} -direct cost of byproducts obtained in the production of 1 ton of a basic product; P_{u2} -indirect cost of byproducts obtained in the production of 1 ton of basic product; P_r -the value of 1 ton of basic product calculated according to quality; P_k -reduced value of 1 ton of basic product after subtraction of byproduct costs



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Methods of Determining Optimum Level and Scope of Automation in Technological Processes

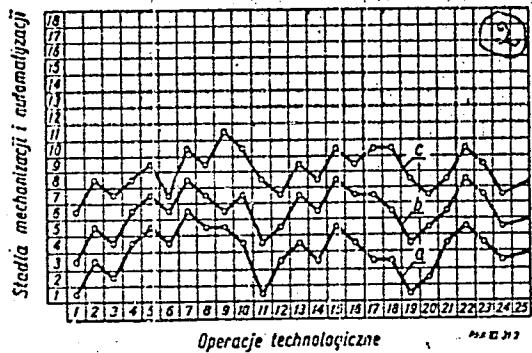


Figure 2: Diagram showing stages of automation
Vertical column of figures indicates the stage of automation, the bottom line of figures specifies technological operations, while a, b, c indicate the automation levels 1, 2 and 3, respectively

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Figure 3: Diagram showing prime-costs and technological operations

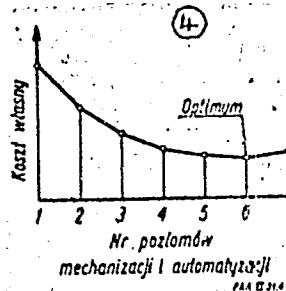
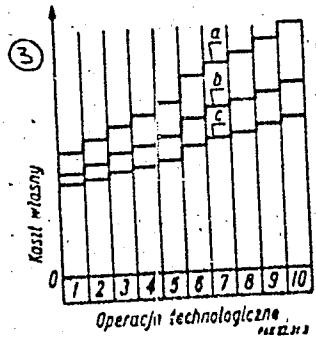


Figure 4: Prime-costs and level of mechanization and automation

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A221/A026

AUTHOR: Zarebski, Henryk

TITLE: Research Work in the Field of Measurements and Automation, Carried out at the Institute of Inorganic Chemistry

PERIODICAL: Przemysł Chemiczny 1960, Vol 39, No. 11, pp. 672 - 674

TEXT: In the first part of this article the author describes how the project of automating a plant is usually worked out. First, the technological process must thoroughly be examined and the inter-dependence of individual parameters established. Based on this knowledge, the preliminary plan and the documentation are worked out. The latter might require a modification of the existing installation, or even of the technology, of special instruments, etc. Having examined prototypes of instruments and elements of automation the industrial automation project is worked out. In countries having an adequate amount and assortment of instruments at their disposal, it takes about three years to complete such a cycle of automation. Thanks to well trained experts, availability of instruments made in the country of laboratories and of installation and maintenance workers, the automation of chemical industry has made great progress in the USSR. Already in 1956, automation laboratories existed in 15 institutes, subject to the USSR Ministry of

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Research Work in the Field of Measurements and Automation, Carried out at the
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Chemical Industry. Some of these institutions, like the UNICHIM (Uralski Naukowo-badawczy Chemiczny Instytut), were organised even in 1938. In 1957, 2.9 - 25% of USSR research workers were employed in automation laboratories. In Poland the corresponding figures were 0.5 - 6% in 1958: in the chemical synthesis industry 3%, in the Zakłady Chemiczne "Oświęcim" (Chemical Plant) in Oświęcim 4%, in the Przemysł Nieorganiczny (Inorganic Industry) 2.6%, in the Przemysł Naftowy (Petroleum) 1%, in the Zakłady Azotowe "Kędzierzyn" (Nitrogen Products Plant) in Kędzierzyn 6%, and in the Przemysł Kokso-chemiczny (Coke-chemical Industry) 0.5%. Until 1959, the Biuro Projektów Przemysłu Nieorganicznego (Inorganic Industry Project Bureau) had no research and experimental facilities. Introduction of automatic process control was delayed due to lack of domestic pneumatic regulators and automation elements, to difficulties in imports, to lack of experimental bases and in many plants to lack of well organized measuring services. In the second part of this article, the author outlines the organization of research work within the Institute of Inorganic Chemistry. In 1959, a provisional measuring and automation laboratory was organized at this institute. The organization plan was rather modest, because it had to comply with the real possibilities of the young staff and with the poor

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Research Work in the Field of Measurements and Automation, Carried out at the Institute of Inorganic Chemistry

financial and technical means. The working program was divided into four groups: 1) Cooperation with the Biuro Projektów (Project Bureau), 2) Cooperation with the Industry, 3) Planned research and design work, 4) Service work for IChN. Cooperation with the "BIPROKwas" (Project bureau) of sulphuric acid industry resulted in supplying this institution with details concerning special instruments to be applied in sulphuric acid and superphosphate plants, in particular the hydrostatic-pneumatic densitometer and a notchmeter. For the industry, the prototype of an instrument signalling the acidulation of circulation water was built and tried out at the Toruńskie Zakłady Nawozów Fosforowych (Phosphatic Fertilizer Plant) in Toruń. Planned research work resulted in issuing two studies: "Estimation methods of optimum level and range of technological process automation" and "the design, fabrication and examination of a pneumatic-hydraulic valve for liquid-flow regulation". Prototypes of two such valves were also fabricated, examined and tested. In the service group a measuring installation for semi-technical plant was designed and the accuracy of instruments used in industry was checked. The article ends with a long-range program of this institution, including fabrication, testing and in-

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Research Work in the Field of Measurements and Automation, Carried out at the Institute of Inorganic Chemistry

Installation of various instruments, introduction of new measuring and regulation methods, etc. Completion of this program depends on several factors, e.g. finding suitable accommodation for laboratories, credits for laboratory equipment, procurement of materials, instruments and machine tools. There is 1 table.

Card 4/4

ZAREBSKI, Henryk

Research in the field of measuring and automation carried out
in the Institute of Inorganic Chemistry. Przem chem 39 no.11:
672-674 '60.

ZAREBSKI, H.

ZAREBSKI, H.

Economic effects of the automation of the chemical industry.

P. 226 (Chemik) Vol. 10, No. 7/8, July 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. 7, NO. 1, JAN. 1958

B-1 attached

B-1 attached

*Planning of maintenance and control in industry. H. Zarebski
[Prace, Chem., 1950, 6, 139-144].—The functions of maintenance
and control staffs are discussed.*

R. Truszkowski

ZAREBSKI, H.

SCIENCE

Periodicals: CHEMIK. Vol. 11, no. 7/8, July/Aug. 1958.

ZAREBSKI, H. Automation of the contact apparatus in sulfuric acid plants. p. 269.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959,
Unclass.

ZAREBSKI, H.

Cairesof engineers. p. 253.

CHEMIK, Vol. 7, No. 9, Sept. 1954, Warsaw, Poland

SO: East European Accessions List, Lib. of Cong., Vol. 5, No. 10, Oct. 1956.

ZARECKI, H.

"Influence of standardization on technical progress in the field of production control and management of chemical factories." (p.16) Polski Komitet Normalizacyjny.
WIADOMOSCI. Warszawa. Vol. 22, no. 1, Jan. 1954

SO: EAST European Accessions List Vol 4, No 8, Aug. 1954

P/034/60/000/001/001/003
A222/A026

AUTHOR: Zarebski, Henryk, Master of Engineering

TITLE: Indices Used for the Appraisal of Level and Scope in the Automation
of Technological Processes

PERIODICAL: Pomiary-Automatyka-Kontrola, 1960, No. 1, pp. 22-23

TEXT: The author presents a brief review of indices used to appraise level and scope of automation in the chemical and related industries. Since direct and raw materials represent about 66.1 % of production costs in chemical industry, the tendency in the automation of chemical industry is to reduce consumption of raw materials and, in the second place, to reduce amortization and power consumption. A serious obstacle in the comparison of economical effects of automation is the low accuracy of balance tests. Some of the savings achieved due to automation can be only established by statistical methods. Among the attempts to find technical and economical criteria of automation, the suggestion of Lossevskiy (Ref. 2) is cited to use the following indicators: (1) level of automation, (2) scope of automation. Level of automation is defined as the extent of technical perfection in operations controlled by auto-

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Indices Used for the Appraisal of Level and Scope in the Automation of Technological Processes

mated equipment. Scope of automation is the ratio of automated operations to the total number of operations. A Czechoslovak survey table of automation levels (Table IV) worked out by N. Strejc (Ref. 3,4) is given, differentiating 8 levels of automation, beginning with level 1, which involves simple test equipment like glass thermometers, spring manometers and only a few panel instruments (and requires 1 % or less in investment costs), and ending with level 8, which involves the full mechanization and automation (and requires between 15 and 40 % investment costs). A formula is given to calculate the period of profitability (or the period of time required to compensate for automation expenses by savings resulting therefrom) as employed by the Gosudarstvennyi Institut Azotnoy Promyshlennosti (State Institute of Nitrogen Industry) in Moscow:

$$E = \frac{B - Ax}{Cx - B(a - b)} \quad D \quad J$$

where: A = expenditures for housing and social construction per worker; B = expenditures for automation; wages and insurance per worker; x = number of workers saved due to automation; a = repair and maintenance costs (assumed

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CIA-RDP86-00513R001963820004-8

ZAREBSKI, J.

"We start in ten days" p. 182 (Skrzydla I Motor, Vol. 8, no. 12, Mar 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820004-8"

ZARERSKI, J.

"The leading branch of the Aviation League."
(Skrzydla i Motor, Vol 8 No 2 Jan 53 Warszawa)

p. 19

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

ZAPERSKI, J.

They were helping the fighting people of Warsaw; from reminiscences of a participant in the Warsaw Uprising.

p. 11 (Skrzydla Polska. Vol. 12, no. 32, Aug. 1956. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 2,
February 1958

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820004-8

HAGENBERG, J.

To welcome my wife with joy, j. H.

AN DER DIAKONIE - vol. 10, no. 18, Mar. 1956

Poland

NO. 10. 1956. AN DER DIAKONIE - vol. 5, no. 10 Oct. 1956

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820004-8"

ZARESKI, J.

ZARESKI, J. The Warszawa regiment won the pennant. p. 3. Vol. 11, no. 44, Oct. 1955. SIERZYDŁA POLSKA. Warszawa, Poland.

SOURCE: East European Accessions List (SEAL) LC VOL. 5, No. 6 June 1956

ZAREBSKI, J.

Aerial cruisers.

P. 8 (ZOLNIERZ POLSKI) (Warszawa, Poland) No. 8, Feb. 1958

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

ZAREBSKI, J.

I saw a jump from a catapult. p.9.
SKRZYDŁA POLSKA (Liga Lotnicza) Warszawa
Vol. 11, no. 52, Dec. 1955

So. East European Accessions List Vol. 5, No. 9 September 1956